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#### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INDANE COMPOUNDS AS CCR5 ANTAGONISTS

(57) Abstract: The present invention relates to compounds of formula (I), or pharmaceutically acceptable derivatives thereof, useful in the treatment of CCR5-related diseases and disorders, for example, useful in the inhibition of HIV replication, the prevention or treatment of an HIV infection, and in the treatment of the resulting acquired immune deficiency syndrome (AIDS).



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IPC 7	FICATION OF SUBJECT MATTER C07D451/04 C07D211/58 C07D471 A61P31/18	/10 CO7D413/04	A61K31/439							
According t	o International Patent Classification (IPC) or to both national classifi	cation and IPC								
B. FIELDS SEARCHED										
Minimum de IPC 7	ocumentation searched (classification system followed by classification ${\tt C07D-A61K}$	tion symbols)								
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in	the fields searched							
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)										
			ı terms üsed)							
EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data										
C. DOCUMENTS CONSIDERED TO BE RELEVANT										
Category °	Citation of document, with indication, where appropriate, of the re-	elevant passages	Relevant to claim No.							
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E	WO 2004/009584 A (AHN YOUNG GIL YOUNG JIN (KR); KIM HAN KYONG (K HEE SEOCK) 29 January 2004 (2004 claim 1; examples 1-8	Ŕ): KIM	1							
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Furth	er documents are listed in the continuation of box C.	Patent family members	are listed in annex.							
° Special cat	egories of cited documents :	"T" later document published at	for the International filling data							
'A' docume	nt defining the general state of the art which is not	or priority date and not in o	conflict with the application but							
"E" earlier d	considered to be of particular relevance  E' earlier document but published on or after the International									
	filing date  document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone									
citation	or other special reason (as specified)	"Y" document of particular relev	vance; the claimed invention							
"O" docume other m	nt referring to an oral disclosure, use, exhibition or neans	document is combined with	volve an inventive step when the n one or more other such docu- peing obvious to a person skilled							
"P" documer later that	nt published prior to the international filing date but an the priority date claimed	in the art.  *& document member of the sa								
	ctual completion of the international search	Date of mailing of the intern								
30	) March 2004	15/04/2004								
Name and m	ailing address of the ISA	Authorized officer								
	European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nj.	}								
	Fax: (+31-70) 340-2016	Seelmann, I								

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

#### Continuation of Box I.2

The present claims relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to carbocyclic, bicyclic compounds. The following limitations were made in the search: All Z = carbon, B is a 4-7 membered saturated carbocyclic ring and R10 = R7 (two R10 cannot form a ring). All compounds of claim 22 are encompassed by the scope of the search.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.



## INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of Irrst sheet)	
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2. X Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210	
See Furiner Information Steel FCT/154/210	,
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	:
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple Inventions in this international application, as follows:	
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were pald, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
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Remark on Protest The additional search fees were accompanied by the applicant's protest.	
No protest accompanied the payment of additional search fees.	
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Into all Application No PCT/US 03/39975

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